

Jose Enrique Amaro

List of Publications by Year in descending order

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127
papers

3,506
citations

126907

33
h-index

161849

54
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135
all docs

135
docs citations

135
times ranked

1000
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the kinematic boundaries of the quasielastic neutrino-nucleus cross section in the superscaling model with a relativistic effective mass. <i>Physical Review D</i> , 2022, 105, .	4.7	0
2	Monte Carlo simulation of COVID-19 pandemic using Planck's probability distribution. <i>BioSystems</i> , 2022, 218, 104708.	2.0	4
3	Global analysis of the COVID-19 pandemic using simple epidemiological models. <i>Applied Mathematical Modelling</i> , 2021, 90, 995-1008.	4.2	36
4	Meson-exchange currents and superscaling analysis with relativistic effective mass of quasielastic electron scattering from C . <i>Physical Review C</i> , 2021, 104, .	2.9	11
5	Neutrino-nucleus scattering in the SuSA model. <i>European Physical Journal: Special Topics</i> , 2021, 230, 4321-4338.	2.6	12
6	Semiempirical formula for electroweak response functions in the two-nucleon emission channel in neutrino-nucleus scattering. <i>Physical Review D</i> , 2021, 104, .	4.7	9
7	Electron- versus neutrino-nucleus scattering. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2020, 47, 124001.	3.6	33
8	NN Scattering and Nuclear Uncertainties. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	29
9	Charged-current quasielastic (anti)neutrino cross sections on ^{12}C with realistic spectral functions including meson-exchange contributions. <i>AIP Conference Proceedings</i> , 2019, .	0.4	3
10	Realistic spectral function model for charged-current quasielastic-like neutrino and antineutrino scattering cross sections on ^{12}C . <i>Physical Review C</i> , 2019, 99, .	2.9	17
11	Neutrino "oxygen ^{16}O " scattering in the SuSAv2-MEC model. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 015104.	3.6	28
12	Low energy peripheral scaling in nucleon-nucleon scattering and uncertainty quantification. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2018, 45, 035107.	3.6	7
13	Two-nucleon emission in neutrino and electron scattering from nuclei: The modified convolution approximation. <i>Annals of Physics</i> , 2018, 388, 323-349.	2.8	10
14	Global superscaling analysis of quasielastic electron scattering with relativistic effective mass. <i>Physical Review C</i> , 2018, 98, .	2.9	10
15	Quasielastic charged-current neutrino scattering in the scaling model with relativistic effective mass. <i>Physical Review D</i> , 2018, 97, .	4.7	13
16	Density dependence of 2p-2h meson-exchange currents. <i>Physical Review C</i> , 2017, 95, .	2.9	15
17	Coarse-grained short-range correlations. <i>Physical Review C</i> , 2017, 95, .	2.9	7
18	The frozen nucleon approximation in two-particle two-hole response functions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 770, 193-199.	4.1	15

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19	Precise determination of charge-dependent pion-nucleon-nucleon coupling constants. <i>Physical Review C</i> , 2017, 95, .	2.9	30
20	Coarse graining the Bethe-Goldstone equation: Nucleon-nucleon high-momentum components. <i>Physical Review C</i> , 2017, 96, .	2.9	5
21	Relativistic model of 2p-2h meson exchange currents in (anti)neutrino scattering. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 065105.	3.6	48
22	Superscaling analysis of quasielastic electron scattering with relativistic effective mass. <i>Physical Review D</i> , 2017, 95, .	4.7	11
23	Fermi-momentum dependence of relativistic effective mass below saturation from superscaling of quasielastic electron scattering. <i>Physical Review C</i> , 2017, 96, .	2.9	10
24	The falsification of Chiral Nuclear Forces. <i>EPJ Web of Conferences</i> , 2017, 137, 09006.	0.3	4
25	The Falsification of Nuclear Forces. <i>EPJ Web of Conferences</i> , 2016, 113, 04021.	0.3	0
26	Binding in light nuclei: Statistical NN uncertainties vs Computational accuracy. <i>Journal of Physics: Conference Series</i> , 2016, 742, 012001.	0.4	5
27	Emission of neutron-proton and proton-proton pairs in neutrino scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 762, 124-130.	4.1	25
28	Axial-vector dominance predictions in quasielastic neutrino-nucleus scattering. <i>Physical Review D</i> , 2016, 93, .	4.7	25
29	The low-energy structure of the nucleon-nucleon interaction: statistical versus systematic uncertainties. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 114001.	3.6	20
30	Three pion nucleon coupling constants. <i>Modern Physics Letters A</i> , 2016, 31, 1630027.	1.2	10
31	Charged-current neutrino-nucleus reactions within the superscaling meson-exchange current approach. <i>Physical Review D</i> , 2016, 94, .	4.7	88
32	Inclusive electron scattering within the SuSAv2 meson-exchange current approach. <i>Physical Review D</i> , 2016, 94, .	4.7	61
33	Emission of neutron-proton and proton-proton pairs in electron scattering induced by meson-exchange currents. <i>Physical Review C</i> , 2016, 94, .	2.9	9
34	Uncertainty quantification of effective nuclear interactions. <i>International Journal of Modern Physics E</i> , 2016, 25, 1641009.	1.0	15
35	Scaling violation and relativistic effective mass from quasi-elastic electron scattering: Implications for neutrino reactions. <i>Physical Review C</i> , 2015, 92, .	2.9	15
36	Statistical error propagation in <i>ab initio</i> no-core full configuration calculations of light nuclei. <i>Physical Review C</i> , 2015, 92, .	2.9	13

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37	Low-energy chiral two-pion exchange potential with statistical uncertainties. Physical Review C, 2015, 91, .	2.9	27
38	Meson-exchange currents and quasielastic predictions for charged-current neutrino- C scattering in the superscaling approach. Physical Review D, 2015, 91, .	4.7	64
39	Superscaling in electron-nucleus scattering and its link to CC and NC QE neutrino-nucleus scattering. AIP Conference Proceedings, 2015, , .	0.4	0
40	Minimally nonlocal nucleon-nucleon potentials with chiral two-pion exchange including \hat{I} resonances. Physical Review C, 2015, 91, .	2.9	152
41	Error analysis of nuclear forces and effective interactions. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 034013.	3.6	23
42	Statistical error analysis for phenomenological nucleon-nucleon potentials. Physical Review C, 2014, 89, .	2.9	63
43	Angular distribution in two-particle emission induced by neutrinos and electrons. Physical Review D, 2014, 90, .	4.7	16
44	Relativistic effects in two-particle emission for electron and neutrino reactions. Physical Review D, 2014, 90, .	4.7	30
45	Coarse-grained NN potential with chiral two-pion exchange. Physical Review C, 2014, 89, .	2.9	42
46	Bootstrapping the statistical uncertainties of NN scattering data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 155-159.	4.1	35
47	Error Analysis of Nuclear Matrix Elements. Few-Body Systems, 2014, 55, 977-981.	1.5	12
48	Partial Wave Analysis of Chiral NN Interactions. Few-Body Systems, 2014, 55, 983-987.	1.5	11
49	Triton binding energy with realistic statistical uncertainties. Physical Review C, 2014, 90, .	2.9	16
50	Effective Interactions in the Delta-Shells Potential. Few-Body Systems, 2013, 54, 1487-1490.	1.5	16
51	Phenomenological high precision neutron-proton delta-shell potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 138-143.	4.1	21
52	Partial-wave analysis of nucleon-nucleon scattering below the pion-production threshold. Physical Review C, 2013, 88, .	2.9	55
53	Neutrino and antineutrino CCQE scattering in the SuperScaling Approximation from MiniBooNE to NOMAD energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 170-174.	4.1	32
54	Coarse-grained potential analysis of neutron-proton and proton-proton scattering below the pion production threshold. Physical Review C, 2013, 88, .	2.9	103

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55	Nucleon-Nucleon Chiral Two Pion Exchange potential vs Coarse grained interactions. , 2013, , .		2
56	Relativistic models for quasi-elastic neutrino-nucleus scattering. , 2012, , .		2
57	Scaling ideas in neutrino scattering reactions: application to the MiniBooNE experiment. Journal of Physics: Conference Series, 2012, 366, 012006.	0.4	0
58	Meson-Exchange Currents and Quasielastic Antineutrino Cross Sections in the Superscaling Approximation. Physical Review Letters, 2012, 108, 152501.	7.8	73
59	Coarse graining nuclear interactions. Progress in Particle and Nuclear Physics, 2012, 67, 359-364.	14.4	23
60	Nuclear Binding Energies and NN uncertainties. , 2012, , .		2
61	Heavy Quark Spin Symmetry and Heavy Baryons: Electroweak Decays. Few-Body Systems, 2011, 50, 113-119.	1.5	0
62	The electron-ion scattering experiment ELiSe at the International Facility for Antiproton and Ion Research (FAIR)â€”A conceptual design study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, 60-76.	1.6	85
63	Meson-exchange currents and quasielastic neutrino cross sections in the superscaling approximation model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 151-155.	4.1	112
64	Relativistic analyses of quasielastic neutrino cross sections at MiniBooNE kinematics. Physical Review D, 2011, 84, .	4.7	68
65	Superscaling predictions for NC and CC quasi-elastic neutrino-nucleus scattering. , 2011, , .		0
66	Meson-exchange currents and final-state interactions in quasielastic electron scattering at high momentum transfers. Physical Review C, 2010, 81, .	2.9	10
67	Pionic correlations and meson-exchange currents in two-particle emission induced by electron scattering. Physical Review C, 2010, 82, .	2.9	38
68	Nucleon Emission off Nuclei Induced by Neutrino Interactions. , 2010, , .		0
69	COHERENT PIONS FROM NEUTRINO SCATTERING OFF NUCLEI. , 2010, , .		0
70	Superscaling of non-quasielastic electron-nucleus scattering. Physical Review C, 2009, 80, .	2.9	32
71	Nuclear effects in electron reactions and their impact on neutrino processes. , 2009, , .		1
72	Neutrino induced weak pion production off the nucleon and coherent pion production in nuclei at low energies. , 2009, , .		1

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73	Neutrino Interactions Importance to Nuclear Physics. AIP Conference Proceedings, 2009, , .	0.4	2
74	Theoretical study of neutrino-induced coherent pion production off nuclei at T2K and MiniBooNE energies. Physical Review D, 2009, 79, .	4.7	45
75	Neutrino Interaction Calculations from MeV to GeV Region. AIP Conference Proceedings, 2008, , .	0.4	0
76	Final-state interactions and superscaling in the semi-relativistic approach to quasielastic electron and neutrino scattering. Physical Review C, 2007, 75, .	2.9	46
77	Quasielastic Charged-Current Neutrino-Nucleus Scattering. Physical Review Letters, 2007, 98, 242501.	7.8	29
78	Scaling and isospin effects in quasielastic leptonâ€“nucleus scattering in the relativistic mean field approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 366-372.	4.1	52
79	Superscaling and neutral current quasielastic neutrino-nucleus scattering. Physical Review C, 2006, 73, .	2.9	45
80	Theoretical uncertainties on quasielastic charged-current neutrinoâ€“nucleus cross sections. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 638, 325-332.	4.1	31
81	Nuclear effects on lepton polarization in charged-current quasielastic neutrino scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 218-226.	4.1	15
82	Superscaling and Charge-changing Neutrino Cross Sections. Nuclear Physics, Section B, Proceedings Supplements, 2006, 155, 257-259.	0.4	8
83	Quasi-elastic neutrino-nucleus reactions. European Physical Journal D, 2006, 56, 527-534.	0.4	1
84	A Heavy Quark Symmetry Approach to Baryons. Nuclear Physics A, 2005, 755, 439-442.	1.5	5
85	Nuclear Many-Body Theory of Electroweak Interactions with Nuclei at Intermediate Energies. Nuclear Physics, Section B, Proceedings Supplements, 2005, 139, 195-200.	0.4	4
86	Final-state interaction and recoil polarization in reactions: comparison with the polarized target case. Nuclear Physics A, 2005, 753, 189-205.	1.5	2
87	Equivalence between local Fermi gas and shell models in inclusive muon capture from nuclei. European Physical Journal A, 2005, 24, 343-353.	2.5	11
88	Skewed recoil polarization in $(e,e^{\prime}p)$ reactions from polarized nuclei. Annals of Physics, 2005, 319, 123-149.	2.8	0
89	Semirelativistic description of quasielastic neutrino reactions and superscaling in a continuum shell model. Physical Review C, 2005, 71, .	2.9	64
90	Superscaling in Charged Current Neutrino Quasielastic Scattering in the Relativistic Impulse Approximation. Physical Review Letters, 2005, 95, 252502.	7.8	84

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91	Using electron scattering superscaling to predict charge-changing neutrino cross sections in nuclei. Physical Review C, 2005, 71, .	2.9	153
92	Charm- and Bottom- Baryons: A Variational Approach Using Heavy Quark Symmetry. AIP Conference Proceedings, 2004, , .	0.4	2
93	Induced nucleon polarization and meson-exchange currents in $(e,e\epsilon^2p)$ reactions. Physical Review C, 2004, 69, .	2.9	5
94	Inclusive quasielastic charged-current neutrino-nucleus reactions. Physical Review C, 2004, 70, .	2.9	196
95	Charmed and bottom baryons: a variational approach based on heavy quark symmetry. Nuclear Physics A, 2004, 740, 333-361.	1.5	47
96	Delta-isobar relativistic meson exchange currents in quasielastic electron scattering. Nuclear Physics A, 2003, 723, 181-204.	1.5	34
97	Pionic decay of Λ hypernuclei in a continuum shell model. Physical Review C, 2003, 67, .	2.9	9
98	Meson-exchange currents in $(e,e\epsilon^2p)$ recoil polarization observables. Physical Review C, 2003, 68, .	2.9	8
99	Semirelativistic meson-exchange currents in $(e,e\epsilon^2)$ and $(e,e\epsilon^2p)$ reactions. Physical Review C, 2003, 68, .	2.9	15
100	Effects of short-range correlations in $(e,e\epsilon^2p)$ reactions and nuclear overlap functions. Physical Review C, 2002, 65, .	2.9	14
101	What Does the Free Space Λ - Λ Interaction Predict for Λ Hypernuclei?. Physical Review Letters, 2002, 89, 032501.	7.8	22
102	Relativistic pionic effects in quasielastic electron scattering. Nuclear Physics A, 2002, 697, 388-428.	1.5	24
103	Electron helicity-dependence in $(e,e\epsilon^2p)$ reactions with polarized nuclei and the fifth response function. Nuclear Physics A, 2002, 703, 541-570.	1.5	5
104	Gauge and Lorentz invariant one-pion exchange currents in electron scattering from a relativistic Fermi gas. Physics Reports, 2002, 368, 317-407.	25.6	69
105	Momentum distribution of relativistic nuclei with Hartree-Fock mesonic correlations. European Physical Journal A, 2002, 15, 421-427.	2.5	1
106	Role of relativity in electron scattering: kinematical versus dynamical effects. Nuclear Physics A, 2001, 689, 449-452.	1.5	2
107	Quasielastic Scattering from Relativistic Bound Nucleons: Transverse-Longitudinal Response. Physical Review Letters, 1999, 83, 5451-5454.	7.8	85
108	Nuclear currents based on the integral form of the continuity equation. Physical Review C, 1999, 60, .	2.9	3

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109	Analysis of meson exchange and isobar currents in $(e, e'e^2p)$ reactions from ^{16}O . Physical Review C, 1999, 60, .	2.9	15
110	Relativistic effects in electromagnetic nuclear responses in the quasi-elastic delta region. Nuclear Physics A, 1999, 657, 161-186.	1.5	23
111	Final-state interactions in $(e, e'e^2p)$ reactions with polarized nuclei. Nuclear Physics A, 1999, 646, 187-208.	1.5	10
112	Spin Observables in Coincidence Electron Scattering from Nuclei. Annals of Physics, 1998, 263, 56-118.	2.8	17
113	Relativistic effects in electromagnetic meson-exchange currents for one-particle emission reactions. Nuclear Physics A, 1998, 643, 349-382.	1.5	33
114	Model of short-range correlations in the charge response. Physical Review C, 1998, 57, 3473-3475.	2.9	14
115	Radiative pion capture in nuclei: a continuum shell-model approach. Nuclear Physics A, 1997, 623, 529-547.	1.5	16
116	Parity violation in quasielastic electron scattering from closed-shell nuclei. Nuclear Physics A, 1996, 602, 263-307.	1.5	56
117	Inclusive quasielastic scattering of polarized electrons from polarized nuclei. Nuclear Physics A, 1996, 611, 163-210.	1.5	31
118	Continuity equation in electron scattering from nuclei. Physical Review C, 1996, 53, 1430-1433.	2.9	4
119	FINITE SIZE EFFECTS IN THE ELECTROMAGNETIC QUASI-ELASTIC RESPONSES OF NUCLEI. International Journal of Modern Physics E, 1994, 03, 735-755.	1.0	23
120	Meson-exchange current effects in inelastic electron scattering from polarized nuclei. Nuclear Physics A, 1994, 576, 553-580.	1.5	11
121	Meson-exchange current effects in elastic electron scattering from polarized nuclei. Nuclear Physics A, 1994, 567, 701-733.	1.5	11
122	Meson-exchange currents in quasi-elastic electron scattering from ^{12}C and ^{40}Ca nuclei. Nuclear Physics A, 1994, 578, 365-396.	1.5	58
123	Electromagnetic Quasi-Elastic Responses in ^{12}C . Annals of Physics, 1993, 221, 306-340.	2.8	47
124	Electroexcitation of magnetic states in ^{48}Ca . Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 99-112.	3.6	3
125	Meson-exchange current effects in the magnetic electroexcitation of ^{48}Ca . Nuclear Physics A, 1992, 537, 585-605.	1.5	18
126	Meson exchange currents in the quasi-elastic response of ^{12}C . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 277, 249-255.	4.1	15

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127	On the quenching of the $(e, e\epsilon^2)$ form factor of the M1 transition to the 10.23 MeV state in ^{48}Ca . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 261, 229-234.	4.1	7